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Alessandro Giovini, Teo Mora, Gianfranco Niesi, Lorenzo Robbiano, Carlo Travers
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2 Advances in homotopic layout compaction
S. Gao, M. Kaufmann, F. M. Maley
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3 Memoing for logic programs
David S. Warren
March 1992   Communications of the ACM, Volume 35 Issue 3
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Keywords: OLDT

4 Tools and transformations—rigorous and otherwise—for prac

Arnon Rosenthal, David Reiner

June 1994   ACM Transactions on Database Systems (TODS), Volume 19 Issu

Full text available: pdf(3.19 MB)   Additional Information: full citation, abstract, references, citin

We describe the tools and theory of a comprehensive system for database des support multiple conceptual and logical design processes. The Database Desig system uses a rigorous, information-content-preserving approach to schema t heuristics, guess work, and user interactions. The main contribution lies in illu practical system, and how the consistency ...

Keywords: applications of database theory, computer-aided software engineer design, database equivalence, design heuristics, entity-relationship model, he

5 Partial redundancy elimination in SSA form

Robert Kennedy, Sun Chan, Shin-Ming Liu, Raymond Lo, Peng Tu, Fred Chow

May 1999   ACM Transactions on Programming Languages and Systems (TOPLAS

Full text available: pdf(704.71 KB)   Additional Information: full citation, abstract, reference

The SSAPRE algorithm for performing partial redundancy elimination based en algorithm is formulated based on a new conceptual framework, the factored r redundancy, and representes the first sparse approach to the classical problem algorithm description, theorems and their proofs are given showing that the a by the criteria of computational optim ...

Keywords: code motion, common subexpressions, data flow analysis, partial r

6 Incremental global reoptimization of programs

Lori L. Pollock, Mary Lou Soffa

April 1992   ACM Transactions on Programming Languages and Systems (TOPLAS

Full text available: pdf(1.88 MB)   Additional Information: full citation, abstract, references, citi

Although optimizing compilers have been quite successful in producing excell usefulness are the accompanying long compilation times and the lack of good One approach to attaining faster recompilations is to reduce the redundant an response to edits, and in particulars, small maintenance changes, without affe Although modular program ...

Keywords: compiler optimization, incremental data flow analysis, incremental

7 Deleting Repeated Goals in the Problem Reduction Format
D. W. Loveland, C. R. Reddy
October 1981　Journal of the ACM (JACM), Volume 28 Issue 4
Full text available: pdf(1.05 MB)　Additional Information: full citation, references, citings, index terms

8 Extended ephemeral logging: log storage management for applications witl
John S. Keen, William J. Dally
March 1997　ACM Transactions on Database Systems (TODS), Volume 22 Issue
Full text available: pdf(566.34 KB)　Additional Information: full citation, references, index term

Keywords: OLTP, disk management, logging, long transactions

9 A Completeness Theorem for Straight-Line Programs with Structured Varia
Christoph M. Hoffmann, Lawrence H. Landweber
January 1976　Journal of the ACM (JACM), Volume 23 Issue 1
Full text available: pdf(1.23 MB)　Additional Information: full citation, abstract, references,

A program scheme which models straight-line code admitting structured varia
considered. A set of expressions is associated with a program reflecting the in
axioms is given and program equivalence is defined in terms of expression eq
then defined such that two programs are equivalent if and only if one program
transformations. An app ...

10 XML access control: Access control of XML documents considering update
Chung-Hwan Lim, Seog Park, Sang H. Son
October 2003　Proceedings of the 2003 ACM workshop on XML security
Full text available: pdf(298.78 KB)　Additional Information: full citation, abstract, refere

As a large quantity of information is presented in XML format on the Web, the
security. Until now, research on XML security has been focused on the securit
signatures or encryption technologies. As XML is also used for a data represen
to involve not only communication security but also managerial security. Man
access control, but existing XML acces ...

Keywords: XML document, XML update, access control

11 TID—a translation invariant data structure for storing images

David S. Scott, S. Sitharama Iyengar

May 1986   Communications of the ACM, Volume 29 Issue 5

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citin

There are a number of techniques for representing pictorial information, amon
Quadtrees are often used to store black and white picture information. A varie
improving quadtrees, including linear quadtrees, QMATs (quadtree medial axi
major purpose of these improvements is to reduce the storage required witho
All of these meth ...

12 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 ACM SIGGRAPH Computer Graphics, Volume 13 Issue 3

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

13 Finite Differencing of Computable Expressions

Robert Paige, Shaye Koenig

July 1982 ACM Transactions on Programming Languages and Systems (TOPLAS),

Full text available: pdf(2.68 MB)   Additional Information: full citation, references, citings, index ter

14 Heraclitus: elevating deltas to be first-class citizens in a database program

Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996   ACM Transactions on Database Systems (TODS), Volume 2

Full text available: pdf(3.76 MB)   Additional Information: full citation, abstract, references, citin

Traditional database systems provide a user with the ability to query and man
current database state. However, in several emerging applications, the ability
scenarios in order to reason about the impact of an update (before committin
Example applications include hypothetical database access, active database m
management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hyp
state

15 Concurrency Control in Distributed Database Systems

Philip A. Bernstein, Nathan Goodman

June 1981   ACM Computing Surveys (CSUR), Volume 13 Issue 2

Full text available: pdf(3.24 MB) Additional Information: full citation, references, citings, index terms

16 Performance Workload Char. and Adaptation: Aliasing on the world wide w implications

Terence Kelly, Jeffrey Mogul

May 2002 Proceedings of the eleventh international conference on World Wid

Full text available: pdf(376.28 KB)   Additional Information: full citation, abstract, reference

Aliasing occurs in Web transactions when requests containing different URLs e payloads. Conventional caches associate stored data with URLs and can there to aliasing and other causes. Existing research literature, however, says little user-initiated transactions, or about redundant payload transfers in conventio quantifies the extent of aliasin ...

Keywords: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, detection, hypertext transfer protocol, performance analysis, redundant trans

17 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 3

Full text available: pdf(6.40 MB)   Additional Information: full citation, abstract, references, citin

Motion planning is one of the most important areas of robotics research. The has hindered the development of practical algorithms. This paper surveys the motion planners for point robots, rigid robots, and manipulators in stationary, movable-object environments. The general issues in motion planning are exp performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, moti planning, spatial representation

18 DIB—a distributed implementation of backtracking

Raphael Finkel, Udi Manber

March 1987 ACM Transactions on Programming Languages and Systems (TOPLA

Full text available: pdf(1.66 MB)   Additional Information: full citation, abstract, references, citin

DIB is a general-purpose package that allows a wide range of applications suc bound, and alpha-beta search to be implemented on a multicomputer. It is ve needs to specify only the root of the recursion tree, the computation to be pe children at each node. In addition, the application program may optionally sp nodes from their children's va ...

¹⁹ Query processing techniques for arrays

Arunprasad P. Marathe, Kenneth Salem

August 2002   The VLDB Journal — The International Journal on Very Large

Full text available: pdf(322.53 KB)   Additional Information: full citation, abstrac

Arrays are a common and important class of data. At present, database syste arrays can neither be easily defined nor conveniently manipulated. Further, a paper describes a language called the *Array Manipulation Language* (AML), fo collection of optimization techniques for AML expressions.In the AML framewo externally-defined functions ...

Keywords: Array manipulation language, Array query optimization, Declarativ optimization, Pipelined evaluation, User-defined functions

²⁰ Asynchronous scheduling of redundant disk arrays

Peter Sanders

July 2000   Proceedings of the twelfth annual ACM symposium on Parallel algorith

Full text available: pdf(161.35 KB)   Additional Information: full citation, abstract, reference

Random redundant allocation of data to parallel disk arrays can be exploited t algorithms are proposed which improve the previously known shortest queue scheduling decisions can be deferred until a block access is actually started on generalized for coding schemes with low redundancy. Using extensive experim measured which have so far eluded ...

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